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**Eszter Lukács**

**IEEE Client Services Manager**

**[e.lukacs@ieee.org](mailto:e.lukacs@ieee.org)**

# ОБ IEEE

- Некоммерческая организация
- Крупнейшая в мире ассоциация технических специалистов (415,000 членов в 160 странах)
- Пять основных областей деятельности
  - издательская
  - конференции
  - стандарты
  - членство
  - Е-обучение



## Миссия IEEE

*Основная миссия IEEE<sup>1</sup> содействовать технологическим инновациям на благо всего человечества*

# IEEE Russia Student chapters

- 10 chapters in Russia
- Russia Northwest: 4
- Russia Siberia: 4
- Russia: 2

# Career Development Resources and Opportunities for student members

## IEEE Job Sites and Career Alerts

- ❑ Locate career opportunities easily and confidentially
- ❑ Weekly email newsletter containing career advice

## IEEE Xplore

- ❑ Learn to use IEEE Xplore for company, career, and job related searches

## Awards, Fellowships & Scholarships

- ❑ Recognizes the accomplishments of IEEE members
- ❑ Enhance your resume with an IEEE award

## Conferences

- ❑ Networking and Presenting Opportunities
- ❑ Student Paper Contests

Education Partners Program (EPP-IEEE)



## IEEE Job Site FEATURED JOBS

**Senior Research**  
Athlone, Ireland  
Ericsson Ireland

**Electrical Engineer**  
Palmetto, FL  
ITW GSE Group -  
Trilectron

**Electromagnetic  
Research Scientist**  
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SAIC

**Automation/Controls  
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Carlsbad, CA 92008  
Callaway Golf  
Company

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20560-0908  
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Institution

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95128  
Affymetrix, Inc.

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Worldwide, 24-hour programming challenge  
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other to solve a set of programming problems.

Top prize is a trip  
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Teams registered in 2013:

**1,838**



# And don't forget IEEE Day 2014



# IEEE *Xplore* for your career

- Search to **find contacts**
- Search to **find relevant employers** – by topic and location
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# IEEE covers all areas of technology

More than just electrical engineering & computer science

**OPTICS**   **RENEWABLE ENERGY**   **PHOTONICS**  
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# Full text content from all 38 IEEE Societies

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**IEEE Microwave Theory and Techniques Society**

**IEEE Nuclear and Plasma Sciences Society**

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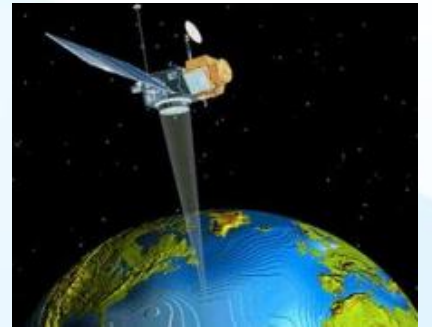
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- *Artificial Life*
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- *Journal of Cognitive Neuroscience*
- *Linguistic Inquiry*
- *Neural Computation*
- *Presence: Teleoperators & Virtual Environments*
- *Design Issues*
- *Computer Music Journal*

# New IEEE Journals in 2013

- *IEEE Transactions on Cloud Computing*
- *IEEE Journal of Emerging and Selected Topics in Power Electronics*
- *IEEE Geoscience and Remote Sensing Magazine*
- *China Communications Magazine*  
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- *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE-RITA)*  
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Thomson Reuters Journal Citation Reports® by Impact Factor

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**6 of the top 10** journals in Computer Science, Hardware & Architecture

**4 of the top 5** journals in Cybernetics

**3 of the top 5** journals in Artificial Intelligence

**2 of the top 5** journals in Robotics

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Based on the 2013 study released June 2014

More info: [www.ieee.org/citations](http://www.ieee.org/citations)



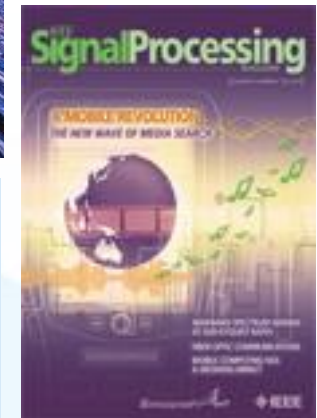
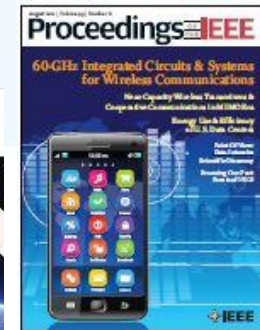
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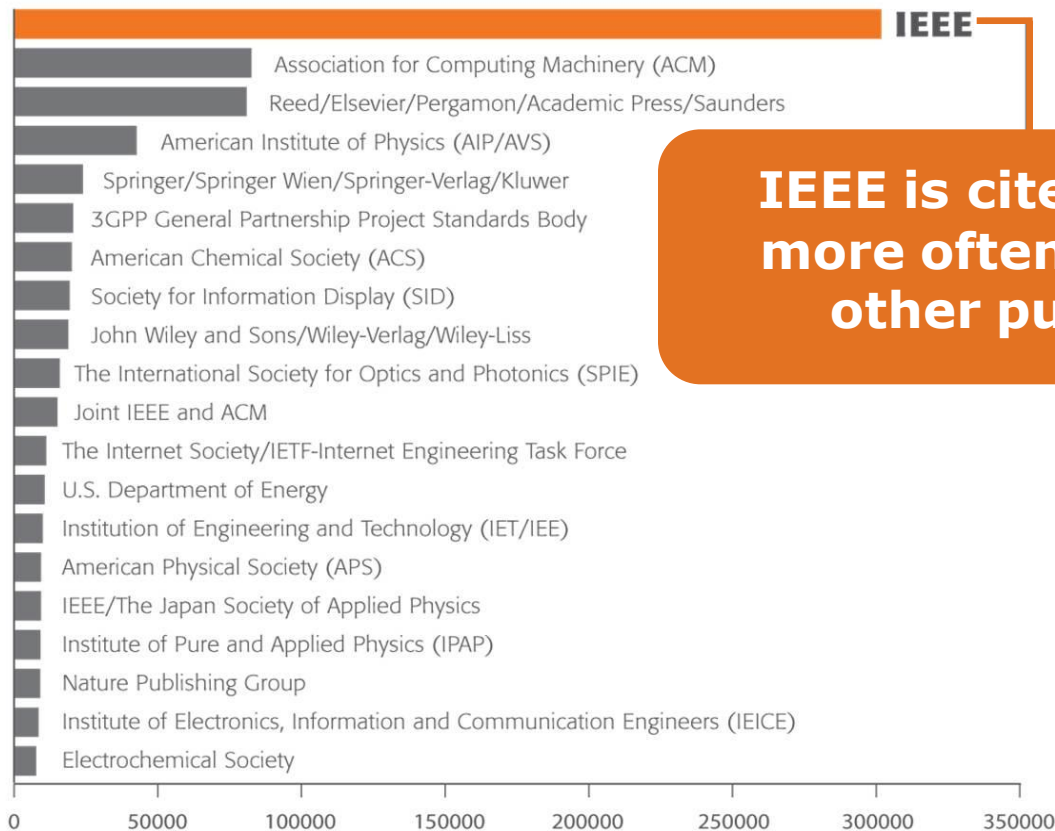


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**Power** Engineering Society General Meeting, 2006. IEEE

Digital Object Identifier: 10.1109/PES.2006.1709139

Publication Year: 2006

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- ☐ **2003 IEEE Power Engineering Society General Meeting (IEEE Cat. No.03CH37491)**

**Power** Engineering Society General Meeting, 2003, IEEE

Volume: 2

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- ☐ **2000 IEEE Power Engineering Society Winter Meeting. Conference Proceedings (Cat.**

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nonce  
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Browse Standards  
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# Abstract Plus

Browse Journals & Magazines > Smart Grid, IEEE Transactions ...> Volume:2 Issue:4

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## A Secure Framework for Protecting Customer Collaboration in Intelligent Power Grids

 Full Text as PDF

 Full Text in HTML

4

Author(s)

Hyejin Son ; Sch. of Electr. Eng., Korea Univ., Seoul, South Korea ; Tae Yoon Kang ; Hwangnam Kim ; Jae Hyung Roh

Abstract

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Much interest and research have emerged to implement and improve the smart grid. The smart grid is the **power** infrastructure whose intellectual capability is enhanced with communication networks. In addition to communication networks, a bidirectional flow of both **power** and information enables the customers to actively participate in the whole procedure of **power** generation, transport, distribution, and consumption. In this paper, we propose the concept of collaborative customer to combine two or more customers into a single customer community, under which the customers collaborate on a **power**-sharing to reduce their expenditure for electricity **power**. However, the collaboration can be easily disrupted in the presence of malicious or selfish behaviors. In order to address the security issue, we present a brand-new security scheme, called the voucher scheme, for securely trading the right on **power** usage among members of a collaborative customer. When the voucher scheme is enabled, a **power** customer who wants to use extra **power** issues a certificate, called voucher that is immune to various security attacks, to a **power** customer who is willing to transfer its right on **power** usage to the former customer, so that both the customers can have monetary benefits. We formally define the security model for the voucher scheme and prove



# References & Citing Documents

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Author(s)

Hyejin Son ; Sch. of Electr. Eng., Korea Univ., Seoul, South Korea ; Tae Yoon Kang ; Hwangnam Kim ; Jae Hyung Roh

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1. Mokhtari, G.; Zare, F.; Nourbakhsh, G.; Ghosh, A. "A new DER coordination in LV network based on the concept of distributed control", *Power Electronics for Distributed Generation Systems (PEDG), 2012 3rd IEEE International Symposium on*, On page(s): 1 - 8  
[Abstract](#) | Full Text: [PDF](#) (1825KB)

2. Hong Liu; Huansheng Ning; Yan Zhang; Guizani, M. "Battery Status-aware Authentication Scheme for V2G Networks in Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 99 - 110 Volume: 4, Issue: 1, March 2013  
[Abstract](#) | Full Text: [PDF](#) (5064KB)

3. Hong Liu; Huansheng Ning; Yan Zhang; Yang, L.T. "Aggregated-Proofs Based Privacy-Preserving Authentication for V2G Networks in the Smart Grid", *Smart Grid, IEEE Transactions on*, On page(s): 1722 - 1733 Volume: 3, Issue: 4, Dec. 2012  
[Abstract](#) | Full Text: [PDF](#) (3894KB)

4. Taeyoon Kang; Hwangnam Kim "Preserving privacy with anonymity for customer collaboration in smart grid", *Communications (APCC), 2012 18th Asia-Pacific Conference on*, On page(s): 724 - 729  
[Abstract](#) | Full Text: [PDF](#) (157KB)



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Stamm, R.J. ; McCleas  
Aerospace Conference  
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☐ **Real-time performance of computer aided detection of bottom mines in the**  
Ciany, C.M. ; Zurawski, W.C. ; Dobeck, G.J. ;  
Weilert, D.R.  
OCEANS 2003. Proceedings  
Volume: 2

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**IEEE Personal Account = save searches, TOC alerts, & preferences.**  
***Does not provide full text access.***

**An IEEE Personal Account without IP access = NO full text access**

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\*Required fields

---

**Provide your personal information**

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**Enter e-mail address & password**

The e-mail address provided here will be the username of your account

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\*Password:

\*Confirm Password:

What is a valid password?

---

**Set security questions** ?

For your security, IEEE Accounts are required to have two security questions and answers.

\*Security question 1:

\*Type Your Answer:

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The IEEE account registration process is an easy 3-click process – just fill out your First Name, Last Name, email address, password and two security questions.

# Username = Email Address


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Add another e-mail address 

\* E-mail address:

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\* Confirm e-mail address:

demotest3@ieee.org

## Add or Confirm Password

Enter your current password or create a new one.

\* Password:

●●●●●●●●●●

What is a valid password?


 Great password!

\* Confirm Password:

●●●●●●●●●●

## Set security questions


\* Security question 1:

What are the last 4 digits of your Social Security Nu 

\* Type your answer:

1234

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What city were you born in? 

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# Publish IEEE journal or IEEE conference?

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  - Find a good match for your research subject matter
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# Audience

**Audience**

## **Basic Questions**

1. Are you writing this paper for the sake of writing a paper?
2. Or do you want to make a difference in your technical community?

## Audience

# Scientific research publishing

- Who writes scientific papers?
  - Whoever solves a new and important problem in their field
  - Engineers, scientists, educators and researchers from:
    - Corporations
    - Academia
    - Government
  - Students typically write and present conference papers before submitting journal articles



## Audience

# What IEEE editors and reviewers are looking for

- Content that is **appropriate, in scope and level, for the journal**
- Clearly written **original material that addresses a new and important problem**
- Valid methods and rationale
- Conclusions that make sense
- Illustrations, tables and graphs that support the text
- References that are current and relevant to the subject

## Audience

# Why IEEE editors and reviewers reject papers

- The content is **not a good fit for the publication**
- There are serious scientific flaws:
  - Inconclusive results or incorrect interpretation
  - Fraudulent research
- It is poorly written
- It does **not address a big enough problem** or advance the scientific field
- The work **was previously published**
- The **quality is not good enough for the journal**
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# Structure

# Paper Structure

## Elements of a manuscript

Title

Abstract

Keywords

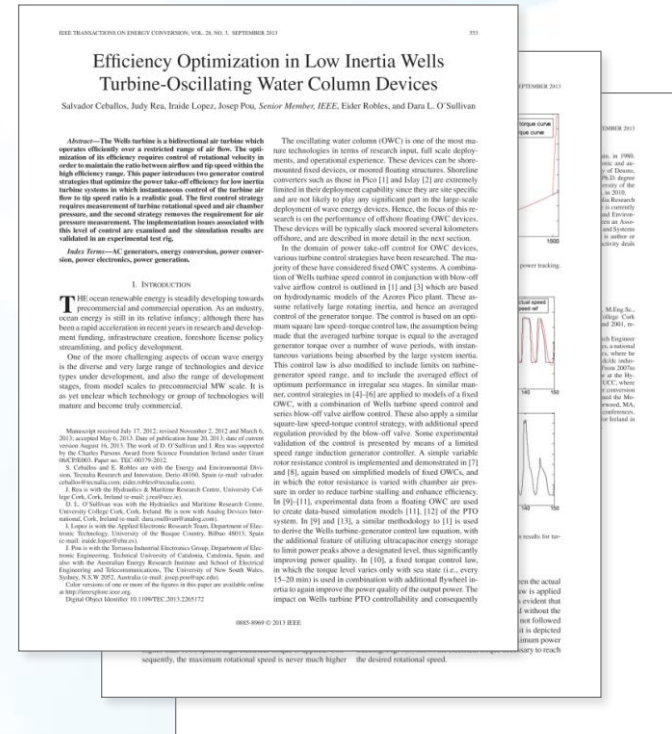
Introduction

Methodology

Results/Discussions/Findings

Conclusion

References



# Paper Structure

## Title

An effective title should...

- Answer the reader's question:  
*"Is this article relevant to me?"*
- Grab the reader's attention
- Describe the content of a paper using the fewest possible words
  - Is crisp, concise
  - Uses keywords
  - Avoids jargon

Good  
Title

VS.

Bad  
Title

## Paper Structure

# Good vs. Bad Title

*A Human Expert-based Approach to Electrical Peak Demand Management*

**VS**

*A better approach of managing environmental and energy sustainability via a study of different methods of electric load forecasting*

# Paper Structure

## Abstract

A “stand alone” condensed version of the article

- No more than 250 words; written in the past tense
- Uses keywords and index terms

**Why you did it**

**What you did**

**How the results were useful, important & move the field forward**

**Why they're useful & important & move the field forward**

# Good vs. Bad Abstract

The objective of this paper was to propose a human expert-based approach to electrical peak demand management. The proposed approach helped to allocate demand curtailments (MW) among distribution substations (DS) or feeders in an electric utility service area based on requirements of the central load dispatch center. Demand curtailment allocation was quantified taking into account demand response (DR) potential and load curtailment priority of each DS, which can be determined using DS loading level, capacity of each DS, customer types (residential/commercial) and load categories (deployable, interruptible or critical). Analytic Hierarchy Process (AHP) was used to model a complex decision-making process according to both expert inputs and objective parameters. Simulation case studies were conducted to demonstrate how the proposed approach can be implemented to perform DR using real-world data from an electric utility. Simulation results demonstrated that the proposed approach is capable of achieving realistic demand curtailment allocations among different DSs to meet the peak load reduction requirements at the utility level.

## Vs

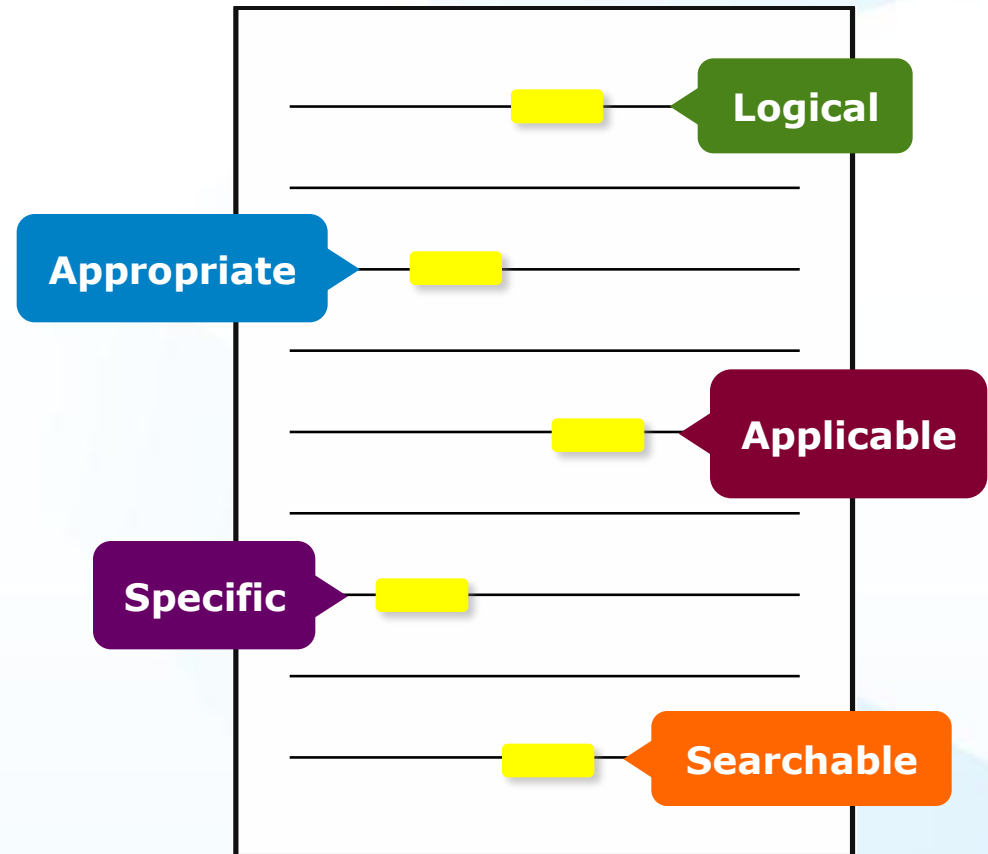
This paper presents and assesses a framework for an engineering capstone design program. **We explain** how student preparation, project selection, and instructor mentorship are the three key elements that must be addressed before the capstone experience is ready for the students. **Next, we describe** a way to administer and execute the capstone design experience including design workshops and lead engineers. **We describe the importance** in assessing the capstone design experience and report recent assessment results of our framework. **We comment** specifically on what students thought were the most important aspects of their experience in engineering capstone design and provide quantitative insight into what parts of the framework are most important.

*First person, present tense*

*No actual results, only describes the organization of the paper*

# Paper Structure Keywords

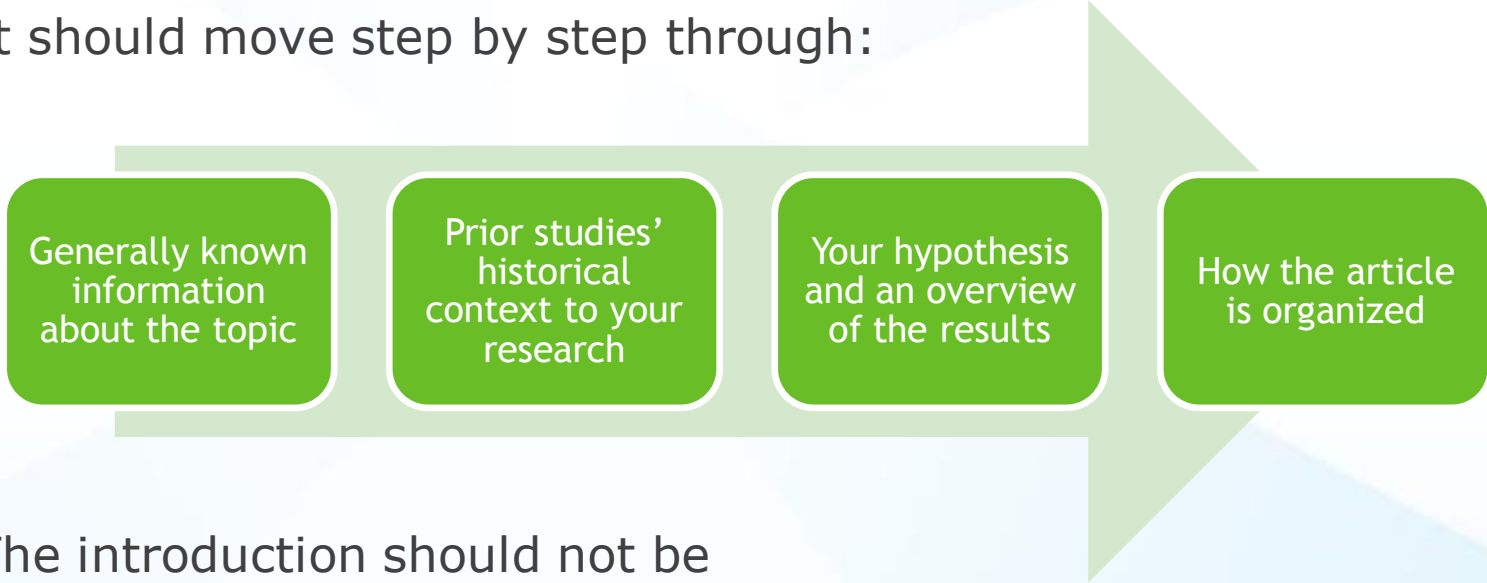
Use in the Title and  
Abstract for enhanced  
Search Engine Optimization



# Paper Structure

## Introduction

- A description of the problem you researched
- It should move step by step through:



Generally known  
information  
about the topic

Prior studies'  
historical  
context to your  
research

Your hypothesis  
and an overview  
of the results

How the article  
is organized

- The introduction should not be
  - Too broad or vague
  - More than 2 pages
  - Written in the present tense



# Paper Structure

## Methodology

- Problem formulation and the processes used to solve the problem, prove or disprove the hypothesis
- Use illustrations to clarify ideas, support conclusions:

### Tables

Present representative data  
or when exact values are important  
to show



### Figures

Quickly show ideas/conclusions that  
would require detailed explanations



### Graphs

Show relationships  
between data points  
or trends in data





# Paper Structure

## Conclusion

- Explain what the research has achieved
  - As it relates to the problem stated in the Introduction
  - Revisit the key points in each section
  - Include a summary of the main findings, important conclusions and implications for the field
- Provide benefits and shortcomings of:
  - The solution presented
  - Your research and methodology
- Suggest future areas for research



## Paper Structure

## References

- Support and validate the hypothesis your research proves, disproves or resolves
- There is no limit to the number of references
  - But use only those that directly support our work
- Ensure proper author attribution
  - Author name, *article title*, publication name, publisher, year published, volume, chapter and page number
  - IEEE journals generally follow a citation numbering system

## Properly cited material

We then have

$$\begin{aligned} (P_1^{s,+} + P_2^{s,-})^2 &= (\hat{P}_1^{s,+} - \hat{P}_2^{s,-})^2 + 4\hat{P}_1^{s,+}\hat{P}_2^{s,-} \\ &\leq (\hat{P}_1^{s,+} - \hat{P}_2^{s,-})^2 + 4\hat{P}_1^{s,+}\hat{P}_2^{s,-} \\ &= (\hat{P}_1^{s,+} + \hat{P}_2^{s,-})^2, \end{aligned} \quad (32)$$

Since  $P_t^{h+} - P_t^{h-} = P_t^{s,+} - P_t^{s,-}$ , we then have  $P_t^{s,+} < P_t^{h+}$  and  $P_t^{s,-} < P_t^{h-}$ . Because the operational cost is an increasing function of  $(P_t^{s,+}, P_t^{s,-})$ , we obtain that

$$c_{\text{eff}}[P_t^{s,+}, P_t^{s,-}] < c_{\text{eff}}[\hat{P}_t^{s,+}, \hat{P}_t^{s,-}]. \quad (33)$$

Therefore the optimal pair  $\{P_i^{s,+}, P_i^{s,-}\}$  must satisfy that  $P_i^{s,+}P_i^{s,-} = 0$ , i.e., only one of  $P_i^{s,+}, P_i^{s,-}$  can be non-zero. ■

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- [7



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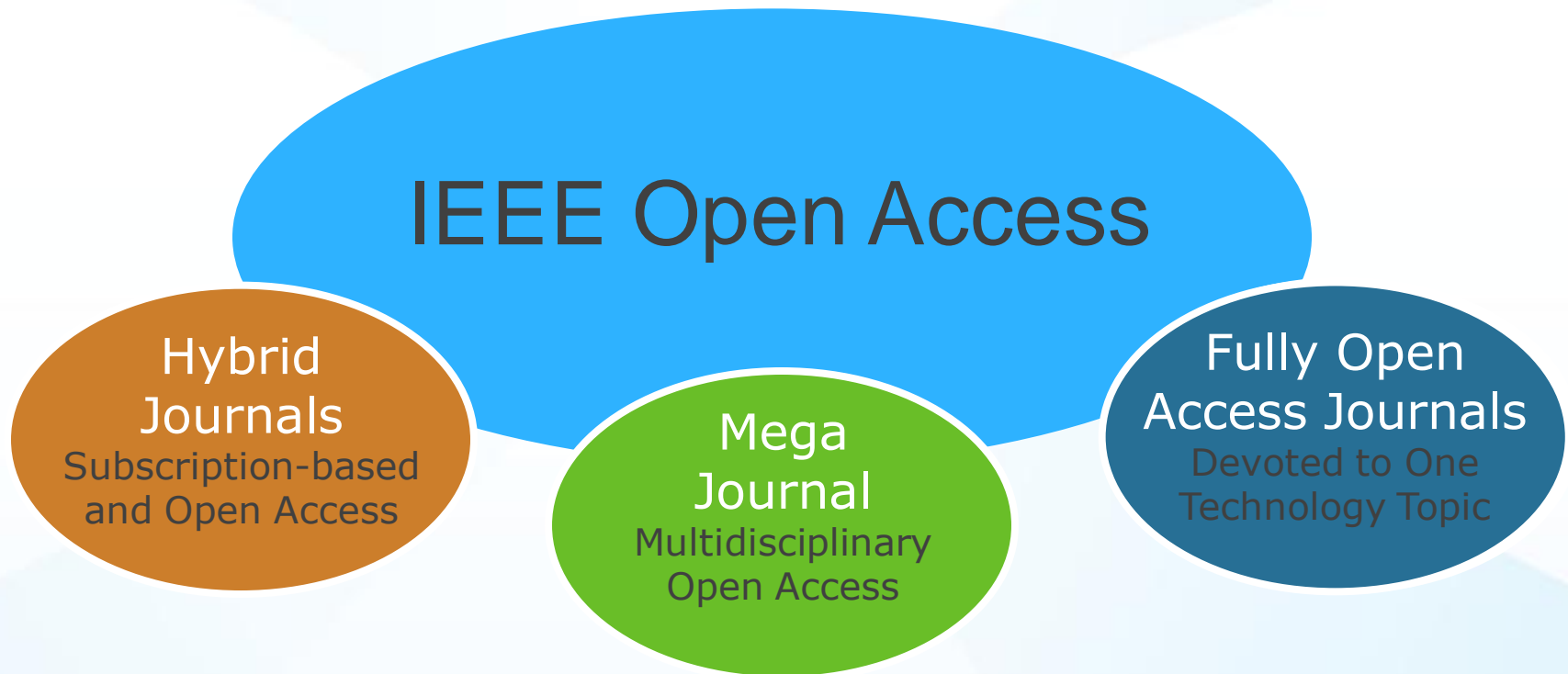
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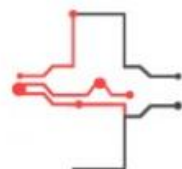


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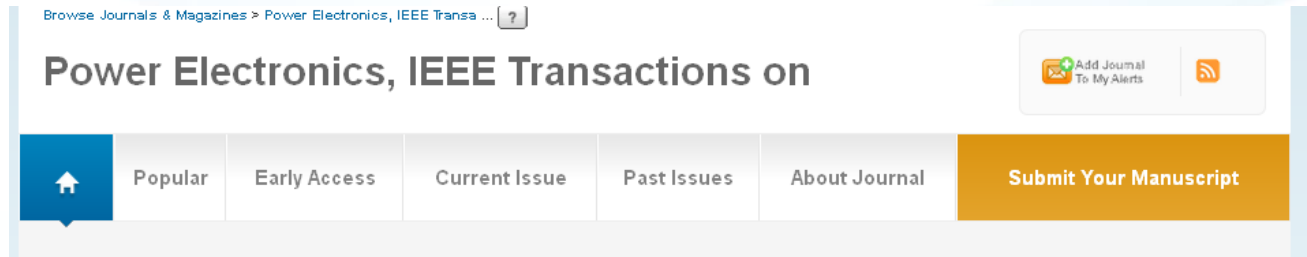
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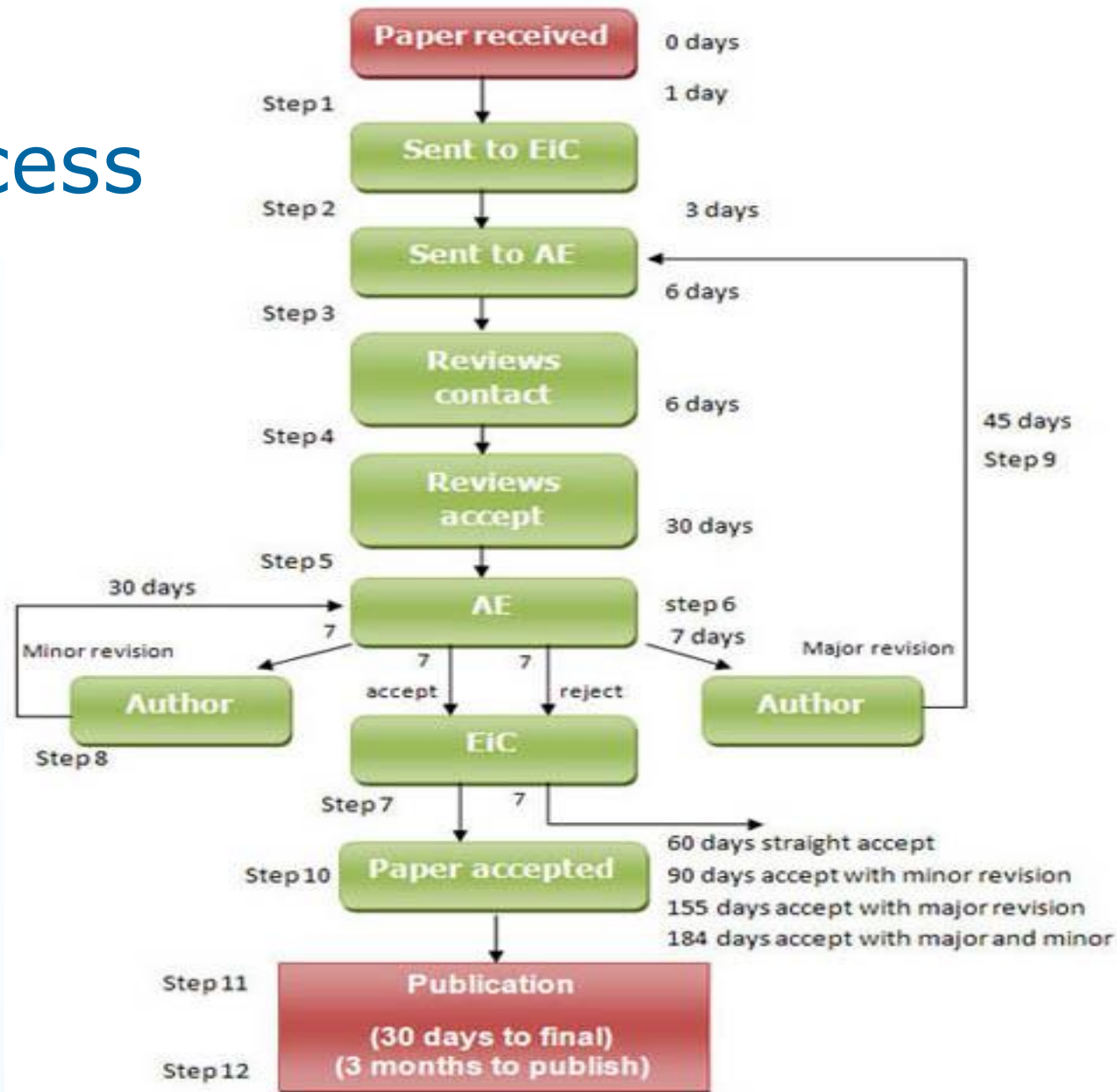
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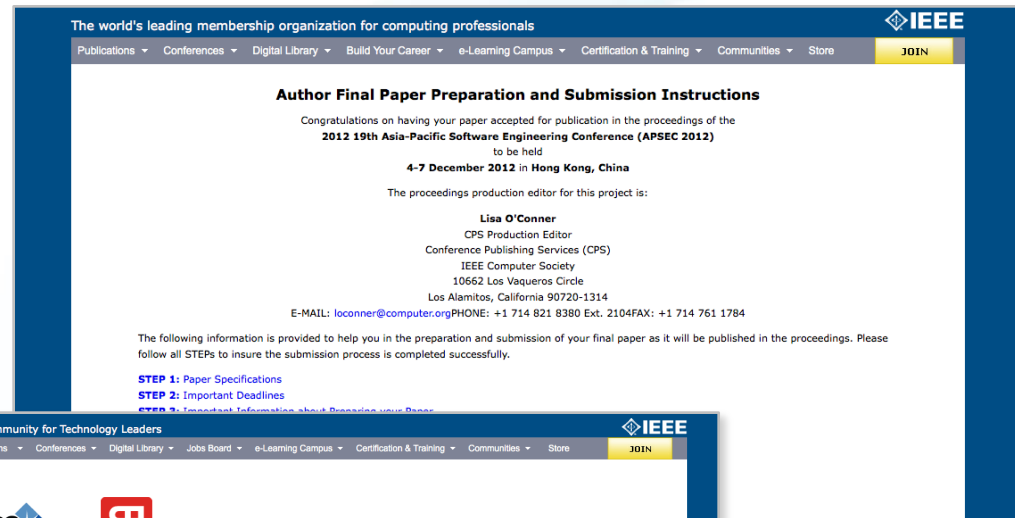
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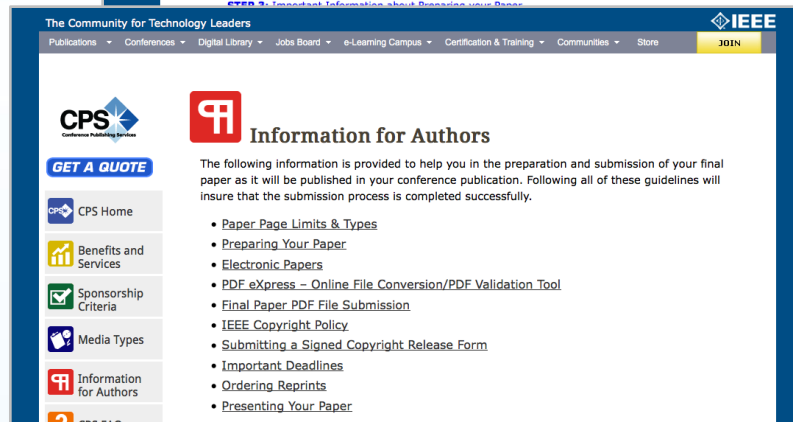
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